

Abstract of the disclosure

An optical fiber has a section of the first kind having a chromatic dispersion not less than a given positive value  $x$  and a negative chromatic dispersion slope at a given wavelength and a section of the second kind has a chromatic dispersion not more than  $-x$  and a positive chromatic dispersion slope at the same wavelength. Another optical fiber has a chromatic dispersion higher than a positive value  $x$  and a negative chromatic dispersion slope at a given wavelength band.